

## FIELD CHANGE REQUEST (FCR) FORM

Project Name: Arkema Project Area – PDI Phase 1

Project No.: CF167

Client: LSS/Retia USA

Request No.: FCR-14

To: Madi Novak, EPA Date: December 22, 2021

Field Change Request Title: Use a Sonic Drill Rig with a 5-ft or 10 ft Sonic Core Barrel Sampler for Vibracore Core Stations near Saltzman Creek.

### Description:

As noted in FCR-13, seven sediment coring stations in the upstream portion of the Arkema Project Area near Saltzman Creek could not be sampled using a vibracore vessel in November or December 2021 (SC-81, SC-82, SC-84, SC-85, SC-86, SC-87, and SC-93). Most of these stations were inaccessible due to shallow water depth (<5 ft) or were located on the riverbank due to the relatively low river stage. A few of the stations were attempted with the vibracore, but had poor sample recovery and refusal due to the sandy sediment at the stations. Sonic drilling will be used to collect sediment samples at these locations.

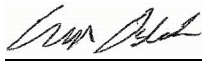
Sonic drilling was attempted at SC-84 using both a 2.5 ft long by 3-inch diameter Shelby tube and a 5 ft long by 3-inch diameter tube, as described in FCR-13. The tubes had little to no sample recovery in some of the intervals due to very soft sediment (e.g., 0-2.5 ft bml) or sand in some of the deeper intervals (e.g., 7.5 to 10 ft bml). The piston in the core tubes did not provide enough suction to retain the sediment or was wedged in the sand and prevented sediment from entering the tube. A different sampling method is necessary to get better sample recovery.

### Recommended Change:

The sampling will be conducted using a combination of either 2.5 ft or 5-ft long by 3-inch diameter Shelby tubes and a sonic core barrel sampler with a flapper to retain the sediment. The sonic core barrel sampler will be driven in either 5-ft or 10 ft drives to maximize the sample recovery at the station. If the resampling of an interval is needed due to poor recovery, the barge may be moved a short distance (e.g., 5-15 ft) to reattempt the sample interval. GPS coordinates will be taken at all station locations where samples are collected for analysis.

The sediment from the sonic core barrel sampler will be placed in polyethylene bags and labeled. The bags and tubes will be transported to the US Ecology facility for processing.

Field Operations Lead (or designee)

  
Signature

December 22, 2021

Date

### Approval:


Eron Dodak  
Project Manager

  
Signature

December 22, 2021

Date

Madi Novak  
EPA Remedial Project Manager

  
Signature

12/27/2021

Date

Distribution:

LSS Project Coordinator

Integral Project Manager

Field Operations Lead

QA Officer

Project File

Other: